

MERCURY.

The "Twinkler" Passes Over the Face of the Sun.

TELESCOPES AT A PREMIUM.

How the Astronomers Watched the Transit.

WORK OF THE FRENCH COMMISSION.

Clouds and Haze Obscuring the Sun.

GENERAL RESULTS SATISFACTORY.

THE OBSERVATIONS BY THE FRENCH ASTRONOMICAL COMMISSION AT OGDEN, UTAH.—CLOUDS OBSCURING THE SKY AT THE EARLY STAGES—THE RESULTS SATISFACTORY.

[BY TELEGRAPH TO THE HERALD.]

OGDEN, Utah, May 6, 1878.

At five A. M. to-day the sky was cloudy but not altogether unfavorable for the observations for the transit of Mercury to be made here to-day, and the representative of the HERALD repaired to the Astronomical Observatory built in 1873 by Lieutenant Wheeler, which the French astronomers had selected for their operations. The observers are Professor Charles Andre, of the Observatoire de Paris; Professor Alfred Angot, of the Observatoire de Lyon; and Professor Philippe Hatz, of the French observatory. Professor Andre conducts his observations from a six-inch photographic equatorial in the dome of the building; the other two gentlemen observe in a temporary building with six-inch equatorials of improved construction. A heliostat with photographic apparatus is also brought into requisition. The representative of the HERALD was kindly permitted to witness the observations. At six A. M. the clouds thickened and at forty-one minutes after seven soon began to fall in flakes.

The transit of Mercury began at 7.44m. 43s., but owing to the unfavorable atmospheric conditions the ingress exterior and interior contacts were only imperfectly observed. At half-past seven the sky cleared and the French astronomers were engaged in photographing the progress of the transit. The HERALD representative and an operator with photographic apparatus were also brought into requisition. The representative of the HERALD was kindly permitted to witness the observations. At six A. M. the clouds thickened and at forty-one minutes after seven soon began to fall in flakes.

[BY TELEGRAPH TO THE HERALD.]

OGDEN, Utah, May 6, 1878.

The transit of Mercury began at four minutes past ten of the clock and ended at twenty-one minutes of six P. M., Washington time. The first and second contacts were not in contact. The weather was cloudy with light rain. The polar and equatorial diameters of Mercury were measured and found equal. No aurora around planet and no satellite was observed. No black drops were observed.

OBSERVATIONS MADE AT WASHINGTON.

WASHINGTON, May 6, 1878.

According to the observations of Professor Newcomb and his assistants the second internal contact of Mercury with the western edge of the sun occurred at thirty-three minutes fifty seconds past five o'clock this afternoon, and the external contact two minutes and fifty seconds later. The planet through the telescope appeared not larger than a silver five-cent piece. Gentlemen engaged in the work say there could not have been a better day for the observations. Professor Eastman was at the old telescope at the National Observatory, and Professor Hall superintended the taking of photographs of the passing planet. Three photographs were produced by means of the horizontal telescope and reflector.

Observations of the second and third internal contacts of Mercury with the eastern edge of the sun were made at the Naval Observatory. The observers were not prepared to furnish any information or an official report of the transit until to-morrow, when the first and second contacts will be observed.

OBSERVATIONS AT CAMBRIDGE, MASS.—THE TRANSIT CAREFULLY FOLLOWED BY A LARGE STAFF OF ASTRONOMERS.

[BY TELEGRAPH TO THE HERALD.]

CAMBRIDGE, May 6, 1878.

The observations at Harvard to-day of the transit of Mercury were very successfully made, the clearness of the day facilitating the photographing and recording, and when all calculations shall have been completed it is expected that valuable additions will be made to the scientific data of the day. The transit began at 10m. 53m. A. M. At 10m. 30m. the shadow engulfed the earth. While the planet was upon the disk an attempt was made to discover whether Mercury was fringed with a ring of light just before entering the sun, and whether this ring appeared as a bright or dark circle round the planet. When fully on the solar disk and also to note one or more bright spots if there are any, upon Mercury, photographs were taken at stated intervals by Mr. Arthur Searle, assisted by Mr. H. H. Wood, and the country was observed on the west equatorial by Professor Pickering, at the east equatorial by Mr. Waldo, and with smaller glasses by Mr. T. C. H. Meyer and others. The transit at noon was observed on the meridian diameter by Professor William A. Gray.

Over sixty photographs were taken and six hundred measurements of the diameter of the planet were noted, and the records of time in transit are not yet worked out. No appreciable variation from the time anticipated is expected to result from the figures. In the afternoon a clear sky afforded a most favorable opportunity for observing the transit. The general results are considered quite satisfactory.

AT AMHERST COLLEGE, MASS.—FAIR WEATHER AND MODERATE SUCCESS.

AMHERST, Mass., May 6, 1878.

The result of the observations at the College Observatory upon to-day's transit of Mercury was as favorable as the weather would permit. The first contact was not taken, but accurate measurements of the planet's position were made and the exact time recorded. Photographs were taken during the planet's course, and the last contact—internal and external—was also obtained. Neon signals from Washington to Amherst were to be continued until six P. M., and it is expected that the longitude of Amherst will be determined with exactness. The work was done by Professor Eddy, assisted by G. W. Stearns and E. K. Herbert, of the senior class.

WATCHING THE TRANSIT AT THE NAVAL ACADEMY, ANNAPOLIS, MD.

[BY TELEGRAPH TO THE HERALD.]

ANNAPOLIS, Md., May 6, 1878.

Commander John A. Howell, assisted by Lieutenant Commanders A. D. Brown and G. G. Brown, made observations to-day at the Naval Academy Observatory on the transit of Mercury. Commander Howell took the first contact of Mercury with the disk of the sun and then the differences of the declination between the limbs of the sun and Mercury by the micrometer. The observations are still in progress, and will close with the final passage of the sun. The weather was most favorable for the observations, the results of which will be forwarded to the United States Observatory at Washington. Owing

to the motion of Mercury with the sun, the little planet seemed no larger than a pin's head when viewed through the big telescope at the Academy appeared on a mad race to cross the sun's lurid disk, and it was making a slow march over the face of the greater light.

Commander J. A. Howell, head of the department of the Naval Academy, furnished the following report of the transit of Mercury to-day:—

The following were the Washington times as observed with the Naval Academy Observatory: Ingress, contact, 10 hours, 53 minutes, 3 seconds; ingress, interior contact, 10 hours, 53 minutes, 3 seconds; egress, interior contact, 3 hours, 30 minutes, 30 seconds.

UNFAVORABLE WEATHER IN NEW HAMPSHIRE.

HAVERHILL, Mass., May 6, 1878.

The weather here is unfavorable to good observation of the transit of Mercury, clear currents in the air causing a haze, and only occasional good views are obtained. Mr. Paul will not make any close calculations until after his return to Washington. The first contact with the sun took place at 10h. 23m. 26s. A. M. The second contact was not determinable. The weather this afternoon encouraged the hope that the most desirable observations would be made by Professors Quincy, Emerson and Fiske are also taking observations. There is a large number continually present to view the planet when it is to be seen.

Both contacts of Mercury with the sun were observed this morning (instead of one as at first reported) and the observations were made with a clear sky this afternoon, though it was cloudy when it was necessary to take most of the observations. Just past four o'clock the declination of the sun and Mercury were the same, an attempt was made to determine the difference of right ascension of the two planets, but the sky was clear, the air was unsteady and observations were of little value. The clock of the Observatory indicated that contact occurred at 5h. 53m. 12s., the external contact being 2m. 32s. later.

SUCCESSFUL OBSERVATIONS AT HAMILTON COLLEGE—INDICATIONS OF AN ATMOSPHERE AROUND MERCURY.

UTICA, N. Y., May 6, 1878.

Professor Peters, of Hamilton College, Clinton made successful observations of the transit of Mercury to-day. Clouds interfered somewhat with the observation of the internal contact. Professor Peters is of opinion that he discovered indications of an atmosphere on the planet.

VASSAR ASTRONOMERS WATCHING MERCURY.

POUGHKEEPSIE, N. Y., May 6, 1878.

The students of the astronomy class at Vassar College took seven photographs of the transit of Mercury to-day at the following named hours:—10.40 and 11.24 A. M., and 12.14, 12.52, 1.30, 1.21 and 1.50 P. M. The first internal contact was observed at 10.40 A. M. and the second at 11.24 A. M. The planet was seen as a small black disk, and the observations were made with a six-inch photographic equatorial in the dome of the building; the other two gentlemen observe in a temporary building with six-inch equatorials of improved construction. A heliostat with photographic apparatus is also brought into requisition. The representative of the HERALD was kindly permitted to witness the observations. At six A. M. the clouds thickened and at forty-one minutes after seven soon began to fall in flakes.

OBSERVATIONS AT PHILADELPHIA—A REPORT TO BE PREPARED.

PHILADELPHIA, May 6, 1878.

Close observations were made in this city to-day, in common with the transit of Mercury, the city of Philadelphia. A number of scientific gentlemen assembled in the Observatory, at the Boy's High School, to witness the planet in transit, but no one was permitted in the Observatory until the contact had been discovered and passed, except Professor Benjamin Snyder and his assistant. The first point of contact was made at some seconds past 10.12 o'clock A. M., which in astronomical reckoning would be May 5, 22h. 4m. Washington mean time. The planet made the first point of contact about 10.12 o'clock A. M., and pursuing a west-southwest direction, emerged at a quarter before six P. M. some six degrees below the Equator. The data taken by Professor Snyder will be sent to the Washington Observatory.

OBSERVATIONS AT LEWISTON, ME.—THE WEATHER UNFAVORABLY CLOUDY.

LEWISTON, Me., May 6, 1878.

Professor Fullerton, of Bates College School, made observations of the transit of Mercury to-day. In the forenoon it was obscured and in the afternoon clouds interfered.

AT WEST POINT ACADEMY—SUCCESSFUL OBSERVATIONS OF THE TRANSIT.

WEST POINT, N. Y., May 6, 1878.

Observations for all four contacts of Mercury with the sun were successfully made to-day at the West Point Observatory.

THE OBSERVATIONS AT DETROIT UNSATISFACTORY ON ACCOUNT OF CLOUDINESS.

[BY TELEGRAPH TO THE HERALD.]

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The observations on the transit of Mercury made here to-day by the scientific corps of the late survey were unsatisfactory. The first contact was noted the condition of the atmosphere being favorable, but shortly after clouds and haze interfered and the view of the planet was obscured, much to the sorrow of the eager observers.

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The conditions proved highly favorable yesterday for the local telescopic-smoked window-glass observations of Mercury's transit. At the hour of observation the contact of the planet with the sun was clearly visible, and the planet was seen as a small black disk, and the observations were made with a six-inch photographic equatorial in the dome of the building; the other two gentlemen observe in a temporary building with six-inch equatorials of improved construction. A heliostat with photographic apparatus is also brought into requisition. The representative of the HERALD was kindly permitted to witness the observations. At six A. M. the clouds thickened and at forty-one minutes after seven soon began to fall in flakes.

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